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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,824	09/06/2006	Juliana C.N. Chan	INSIG1.017APC	3083
20995 7590 03/17/2009 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET			EXAMINER	
			PANDE, SUCHIRA	
FOURTEENTH FLOOR IRVINE, CA 92614			ART UNIT	PAPER NUMBER
			1637	
			NOTIFICATION DATE	DELIVERY MODE
			03/17/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

	Application No.	Applicant(s)					
Office Action Comments	10/591,824	CHAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	SUCHIRA PANDE	1637					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
,	action is non-final.						
·=							
. —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.	4) Claim(s) 1-18 is/are pending in the application.						
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) <u>1-18</u> are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
·—	1. Certified copies of the priority documents have been received.						
3. Copies of the certified copies of the priority documents have been received in Application No							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of the certified copies flot received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

Art Unit: 1637

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-8, drawn to a method for detection.

Group II, claim(s) 9-18, drawn to a product (array and kit).

2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Nakamura et al. (2002) Clinical and Diagnostic Laboratory Immunology vol. 9 no. 4 pp 935-937 teach the product of claim 17.

Claim 17 of instant application recites a kit for detecting a subject of Chinese diabetic suffering from, at risk for developing, or suspected of suffering from a nephropathy comprising: primers for amplifying the gene ACE, AGT, ALR2 or TNF- α ; and an instructional material teaching how to determine whether the subject is suffering from, or at risk for developing the nephropathy.

Nakamura et al. teach primers prepared on the basis of the sequences conserved in human cytokines for amplifying the gene TNF- α (see page 936 left side

Art Unit: 1637

column here primers (primer TNF- α S2 and primer TNF- α R1) for amplifying TNF- α gene are taught). Nakamura et al. also teach use of kits for isolation of RNA and amplification of isolated RNA (see page 935 last part of last paragraph where RNeasy total RNA kit and Omniscript reverse transcriptase kit (both products sold by Qiagen). Thus at the time of the invention prior art taught primers and kit for amplifying the TNF- α gene. The preamble of instant claim recites intended use and does not further limit the product namely primers taught by Nakamura et al.

Hence the product of claim 17 was taught to one of ordinary skill in the art at the time the invention was made by prior art. Therefore the kit and primer for amplifying the TNF- α gene is not novel and lacks the same or corresponding special technical features as the method of group I invention.

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Currently the method of claim 1 is directed to three different populations of patients. Based on the patient population for which the method is directed, the three species of methods recited are :

- a. Method for detecting a diabetic subject of Chinese decent:
 - i. suffering from nephropathy
 - ii. at risk for developing a nephropathy
 - iii. diabetic subject suspected of suffering from a nephropathy

Art Unit: 1637

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The three populations of patients recited are at different levels severity/ progression of the disease. Hence they differ from each other.

Gene / Sequence Restriction Subgroups

- 5. This application contains claims directed to the following patentably distinct Restriction Subgroups of the claimed invention. After election of one of the Groups above, Applicant is required to also elect a restriction subgroup. This is not a species election. Applicant will be required to cancel non-elected subject matter upon indication of allowable subject matter.
 - b. Currently in claim 1 following polymorphic genes are recited:

Application/Control Number: 10/591,824

Art Unit: 1637

iv. I/D genotype of an ACE gene,

v. an M235T genotype of an AGT gene,

vi. a (z-2) genotype of an ALR2 gene 5'-(CA) repeats,

vii. an C106T genotype of an ALR2 gene in the promoter region,

Page 5

viii. a G-308A genotype of a TNF-a gene,

ix. and a complement thereof,

c. Genes recited for amplification by PCR are

x. ACE

xi. AGT

xii. ALR2

xiii. TNF-α

d. Primer pairs for amplification of specific genes identified by SED ID 1-10

Each of the *genes* recited comprise a patentably distinct subgroup. Furthermore, claim 1 as currently recited requires detection of at least one polymorphic gene and each of the polymorphic genes recited comprise a patentably distinct subgroup. Each of the primer pairs

Hence, Applicant is required under 35 U.S.C. 121 to elect a single disclosed Subgroup consisting of *single polymorphic* gene for detection from category b above; a *single gene* for amplification from category c above; and *single appropriate primer pair* (identified by the corresponding two SEQ ID NOS) for the elected gene from category d above for prosecution on the merits to which the claims shall be restricted.

Art Unit: 1637

Applicant is advised that a reply to this requirement must include an identification of the restriction subgroup that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election. Should applicant traverse on the ground that the Restriction Subgroups are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the Restriction Subgroups to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. The examiner has required restriction between product and process claims.

 Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

 All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

Application/Control Number: 10/591,824

Art Unit: 1637

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Page 7

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUCHIRA PANDE whose telephone number is (571)272-9052. The examiner can normally be reached on 8:30 am -5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1637

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Suchira Pande Examiner Art Unit 1637

/Suchira Pande/

Examiner, Art Unit 1637